The Global Food System is Challenged to Sustainably Feed the World in 2050

Meeting global nutritional needs will require an increase of **+70% in protein production**

**Population Growth**

By 2050, between **9-11 billion people will be living on the planet**, an increase of 2 to 3 billion people.

**Rising Middle Class**

Growth of the middle class will **increase demand for meat and fish**

**Urbanization**

By 2050, **65% of world’s population** will live in urban areas, allowing for easier access to animal protein.

Arbiom Solution: Wood to Food

Arbiom brings wood, a non-food plant, **into the food chain**

- Wood is abundant and environmentally-friendly
- Supply stocks are increasing in EU, US and China
- No irrigation or fertilizer required
- Strong industrial supply chain
- Available year-round
- Does not compete with food crops

Forest Area as Share of Land Area, 2015

Source: The World Bank – 2013 Copyright © Actualitix.com All rights reserved
Arbiom SylPro Protein Offers Compelling Benefits

Nutritional
- 60+% crude protein content
- High digestibility (92%)
- Enhanced amino acid profile
- Antibiotic-free
- Beneficial to gut health
- Safe and non-toxic

Economical
- Competitive cost-performance
- Stable price
- Decline in paper industry=available supply of biomass
- Economic development in rural communities

Traceability
- Complete traceability from source to end product
- Consistent quality and year-round supply

Sustainability
- Renewable, natural source of protein
- Low GHG emissions and low land and water use
- Food security in protein-deficit regions
Arbiom Enables Production of High Quality, High Quantity Protein
The Path From Wood to Food

Forestry Material  Highly Fermentable Substrates  Protein Rich Micro-Organisms  SylPro Protein Ingredient
Arbiom’s First Target Market is Aquaculture

Aquaculture is Growing

Aquaculture uses +70% of Global Fishmeal Supply

Fishmeal Supply is Declining


Arbiom Leads Industry Consortium Demonstrating Wood to Food

Sourcing

Biomass Fractionation and Conversion

Product Manufacturing and Testing

European project funded by the Bio based Industries joint Undertaking under the European Union’s Horizon 2020 Research and innovation program under grant agreement N° 745591
Arbiom Team

40+ people from diverse backgrounds committed to solving a global challenge

Marc Chevrel
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Alex Berlin
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Anthony Scime
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Project Director

Mike Bedrosian
Process Implementation Director

Emily Glenn
Business Development Director

Ricardo Ekmay
Animal Nutrition Director

Lisette Tenlep
Senior Research Director

Sophie Maneval
Corporate Secretary

Emily Glenn
Business Development Director

40+ people from diverse backgrounds committed to solving a global challenge

+500K Experiments
Conducted since 2012

+100 Years
Engineering Experience

4 Years
Pilot Operation
Arbiom is Seeking Partners & Investors

Over the next two years, Arbiom will launch a demonstration program leading to full scale commercial operations.

2012 - Today
- Lab Scale
- Bench Scale
- Pilot

2019 - 2020
- Demonstration Program

2022+
- Commercial Production
Thank You.

Marc Chevrel, CEO
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